Comment Form

				Date 04/24/03	Document Guidance for Industry 21 CFR Part 11; Electronic Records; Electronic Signatures Scope and Application
Commenter	Section	Paragraph Figure/ Table Line No.	Proposed Change		nment/ Rationale
Baxter Healthcare Corp.		36-39	From: We will not normally take regulatory action to enforce compliance with the validation, audit trail, record retention, and record copying requirements of Part 11 as explained in this guidance. To: We will not take regulatory action to enforce compliance with the computer-generated audit trail, electronic record retention, and electronic record copying requirements of Part 11 as explained in this guidance.	Validation has been a requirement long before Part 11 was issued. This guidance document is inconsistent in that it starts with a strong statement of non-enforcement (of validation), then later states that is recommended to validate, then concludes that if validation is covered in the predicate rules, then it will be enforced. By just stating those issues which have been the most difficult for industry and vendors (computer generated audit trail, electronic record retention, and copying of electronic records) then, it would not be reasonable to take regulatory action.	
	I	41	From: Intend to exercise enforcement discretion and will not normally take regulatory To: Intend to exercise enforcement discretion and will not take regulatory action "	Agency's thinking on specific application of this Guidance inspections and/or discussion operational before August (commonly known as exist re-examining Part 11.	or industry to clearly understand the fic matters and to ensure consistent te by representatives of the Agency during ions regarding systems that were 20, 1997, the effective date of Part 11 ing or legacy systems) while the agency is
	II	79-80	From: As Is Add: Computerized Systems used in Clinical Trials, Guidance issued April 1999.	requirements from Part 11. well as the other draft guid	ment on Computerized Systems has many . This guidance should be rescinded as ances to be evaluated for consistency.
	H	81-103	From: As Is To: Delete these lines.	withdrawn and does not pr	ns why the previous guidances were ovide any guidance of substance relative ns related to the subject of Part 11.

Commenter	Section	Paragraph Figure/ Table Line No.	Proposed Change	21 CFR Part 11; Electronic Records; Electronic Signatures Scope and Application Comment/ Rationale
	III. A	Lines 135-137	From: Furthermore, persons must comply with applicable predicate rules, and records that are required to be maintained or submitted must remain secure and reliable in accordance with the predicate rules. To: The agency believes that these provisions of Part 11 afford firms considerable flexibility while providing a baseline level of confidence that records maintained in accordance with the rule will be of high integrity. We suggest that your implementation decisions be based on predicate rule requirements to ensure the accuracy and reliability of the records contained in the system. We recommend that you base your approach on a justified and documented risk assessment and a determination of the potential of the system to affect product quality and safety and record integrity.	It would be helpful for the agency to clarify the flexibility of the current rule and how that relates to the risk-based approach. The comments below are taken from the Part 11 final rule discussion of comments (Preamble to 21 CFR Part 11). "C. Flexibility and Specificity 3. Several comments addressed the flexibility and specificity of the proposed rule. The comments contended that agency acceptance of electronic records systems should not be based on any particular technology, but rather on the adequacy of the system controls under which they are created and managed. Some comments claimed that the proposed rule was overly prescriptive and that it should not specify the mechanisms to be used, but rather only require owners/users to design appropriate safeguards and validate them to reasonably ensure electronic signature integrity and authenticity. One comment commended the agency for giving industry the freedom to choose from a variety of electronic signature technologies, while another urged that the final rule be more specific in detailing software requirements for electronic records and electronic notebooks in research and testing laboratories. The agency believes that the provisions of the final rule afford firms considerable flexibility while providing a baseline level of confidence that records maintained in accordance with the rule will be of high integrity. For example, the regulation permits a wide variety of existing and emerging electronic signature technologies, from use of identification codes in conjunction with manually entered passwords to more sophisticated biometric systems that may necessitate additional hardware and software. While requiring electronic signatures to be linked to their respective electronic records, the final rule affords flexibility in achieving that link through use of any appropriate means, including use of digital signatures and secure relational database references. The final rule accepts a wide variety of electronic record technologies, including those based on optical

Date 04/24/03 Document Guidance for Industry

				Date 04/24/03	Document Guidance for Industry 21 CFR Part 11; Electronic Records; Electronic Signatures Scope and Application	
Commenter	Section	Paragraph Figure/ Table Line No.	Proposed Change	Col	IIIIIeiiu Kauoilale	
	III. B.	149-156	From: Under the narrow interpretation of the scope of Part 11, with respect to records required to be maintained or submitted, when persons choose to use records in electronic format in place of paper format, Part 11 would apply. On the other hand, when persons use computers to generate paper printouts of electronic records, those paper records meet all the requirements of the applicable predicate rules, and persons rely on the paper records to perform their regulated activities, the merely incidental use of computers in those instances would not trigger Part 11. In such instances, FDA would generally not consider persons to be "using electronic records in lieu of paper records" under §§ 11.2(a) and 11.2(b). To: Under the narrow interpretation of the scope of Part 11, with respect to records required to be maintained or submitted, when persons choose to use records in electronic format in place of paper format, Part 11 would apply. On the other hand, when persons use computers to generate paper printouts of electronic records, and the electronic records are not maintained for further usage, and those paper records meet all the requirements of the applicable predicate rules, and persons rely on the paper records to perform their regulated activities, the merely incidental use of computers as a printer in those instances would not trigger Part 11. In such instances, FDA would generally not consider persons to be "using electronic records in lieu of paper records" under §§ 11.2(a) and 11.2(b).	determine which electronic are "merely incidental". The set of paper records as 'or copy for later revision or or of a system to generate pa documents would be used	sing as it stands. It will be very difficult to c records are still under part 11 and which his scenario makes it acceptable to have a riginals' but yet still maintain the electronic ther usage. An example would be the use aper Standard Procedures. The paper on a day-to-day basis but if there were to c copy would be the 'original' to be revised.	

Commenter	Section	Paragraph Figure/ Table	Proposed Change	Date 04/24/03 Cor	Document Guidance for Industry 21 CFR Part 11; Electronic Records; Electronic Signatures Scope and Application mment/ Rationale
	III. C. 1	Line No. 203-210	From: Even if there is no predicate rule requirement to validate a system in a particular instance, it may nonetheless be important to validate the system to ensure the accuracy and reliability of the Part 11 records contained in the system. We suggest that your decision to validate such systems, and the extent of validation, be based on predicate rule requirements to ensure the accuracy and reliability of the records contained in the system. We recommend that you base your approach on a justified and documented risk assessment and a determination of the potential of the system to affect product quality and safety and record integrity. For instance, a word processor used only to generate SOPs would most likely not need to be validated. To: Even if there is no predicate rule requirement to validate a system in a particular instance, it may nonetheless be important to validate the system to ensure the accuracy and reliability of the Part 11 records contained in the system. We suggest that your decision to validate such systems, and the extent of validation, be based on predicate rule requirements to ensure the accuracy and reliability of the records contained in the system. We recommend that you base your approach on a justified and documented risk assessment and a determination of the potential of the system to affect product quality and safety and record integrity. For example, the system used to generate a one-time report that is printed and signed on paper would not require validation for that purpose, as the report would be reviewed by the approving party before signing.	when describing when not SOP will be revised based document management s used, the electronic file is that of a one-time report ti	ocessor generating SOPs is a poor one to validate. In most, if not all cases, the I upon the electronic version. With systems, even if paper is generated and the 'original'. A better example would be hat is printed and signed on paper. There ion control since a report would be
	III. C. 3.	238-239	From: As Is. To: "This means that the Agency will not take regulatory action "	Agency's thinking on spec application of this Guidan	for industry to clearly understand the ific matters and to ensure consistent ce by representatives of the Agency during sions regarding any part 11 requirements.

				Date 04/24/03	Document Guidance for Industry 21 CFR Part 11; Electronic Records; Electronic Signatures Scope and Application
Commenter	Section	Paragraph Figure/ Table Line No.	Proposed Change		ment/ Rationale
	III. C. 4.	246	From: As Is. To: Delete: "You should provideduring an inspection."	regarding what is "reasonab	ninated to prevent misunderstandings ble" and "useful". Provisions regarding cords are adequately discussed in lines
	III. C. 4.	257-259	From: If you have the ability to search, sort, or trend Part 11 records, copies provided to the Agency should provide the same capability if it is technically feasible. To: deleted	manipulate the data (search should not be adding require statements in Lines 257-259	n't mandate the FDA to have the ability to ning, sorting, trending). This guidance ements to the regulation. These 9 seem to conflict with lines 275-279, f microfilm, microfiche and paper. These cortable, or trendable.
	III. C. 5.	275	From: As Is. To: "FDA will not object "	Agency's thinking on specification of this Guidance	r industry to clearly understand the ic matters and to ensure consistent by representatives of the Agency during ons regarding archiving required records.

Guidance for Industry Part 11, Electronic Records; Electronic Signatures — Scope and Application

DRAFT GUIDANCEThis guidance is being distributed for comment purposes only.

Comments and suggestions regarding this draft document should be submitted within 60 days of publication in the *Federal Register* of the notice announcing the availability of the draft guidance. Submit comments to Dockets Management Branch (HFA-305), Food and Drug Administration, 5630 Fishers Lane, rm. 1061, Rockville, MD 20852. All comments should be identified with the docket number listed in the notice of availability that publishes in the *Federal Register*.

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U.S. Department of Health and Human Services
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Center for Devices and Radiological Health (CDRH)
Center for Food Safety and Applied Nutrition (CFSAN)
Center for Veterinary Medicine (CVM)
Office of Regulatory Affairs (ORA)

February 2003 Compliance

Guidance for Industry

Part 11, Electronic Records; Electronic Signatures — Scope and Application

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http://www.fda.gov/cder/guidance/index.htm

Office of Communication, Training and Manufacturers Assistance, HFM-40

Center for Biologics Evaluation and Research

http://www.fda.gov/cber/guidelines.htm

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http://www.fda.gov/cvm/guidance/guidance.html

Division of Small Manufacturers Assistance (HFZ-220) http://www.fda.gov/cdrh/ggpmain.html Manufacturers Assistance Phone Number: 800.638.2041 or 301.443.6597 Internt'l Staff Phone: 301.827.3993

Center for Food Safety and Applied Nutrition (CFSAN) http://www.cfsan.fda.gov/~dms/guidance.html.

U.S. Department of Health and Human Services Food and Drug Administration

Center for Drug Evaluation and Research (CDER) Center for Biologics Evaluation and Research (CBER) Center for Devices and Radiological Health (CDRH) Center for Food Safety and Applied Nutrition (CFSAN) Center for Veterinary Medicine (CVM) Office of Regulatory Affairs (ORA)

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Guidance for Industry¹ Part 11, Electronic Records; Electronic Signatures — Scope and **Application**

This draft guidance, when finalized, will represent the Food and Drug Administration's (FDA's) current

thinking on this topic. It does not create or confer any rights for or on any person and does not operate to

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bind FDA or the public. An alternative approach may be used if such approach satisfies the requirements

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I. INTRODUCTION

of the applicable statutes and regulations.

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This guidance is intended to describe the Food and Drug Administration's (FDA's) current thinking regarding the scope and application of Part 11 of Title 21 of the Code of Federal Regulations; Electronic Records; Electronic Signatures.²

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This document provides guidance to persons who, in fulfillment of a requirement in a statute or another part of FDA's regulations to maintain records or submit information to FDA,³ have chosen to maintain the records or submit designated information electronically and, as a result, have become subject to Part 11. Part 11 applies to records in electronic form that are created, modified, maintained, archived, retrieved, or transmitted under any records requirements set forth in Agency regulations. Part 11 also applies to electronic records submitted to the Agency under the Federal Food, Drug, and Cosmetic Act (the Act) and the Public Health Service Act (the PHS Act), even if such records are not specifically identified in Agency regulations (§ 11.1). The underlying requirements set forth in the Act, PHS Act, and FDA regulations (other than Part 11) are referred to in this guidance document as predicate rules.

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As an outgrowth of its current good manufacturing practice (CGMP) initiative for human and animal drugs and biologics. FDA is embarking on a re-examination of Part 11 as it applies to

¹ This guidance has been prepared by the Office of Compliance in the Center for Drug Evaluation and Research (CDER) in consultation with the other Agency centers and the Office of Regulatory Affairs at the Food and Drug Administration.

² 62 FR 13430.

³ These requirements include, for example, certain provisions of the Current Good Manufacturing Practice regulations (21 CFR part 211), the Quality System Regulation (21 CFR part 820), and the Good Laboratory Practice for Nonclinical Laboratory Studies regulations (21 CFR part 58).

⁴ See Pharmaceutical CGMPs for the 21st Century: A Risk-Based Approach; A Science and Risk-Based Approach to Product Quality Regulation Incorporating an Integrated Quality Systems Approach at www.fda.gov/oc/guidance/gmp.html.

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all FDA regulated products. We may revise provisions of Part 11 as a result of that reexamination. This guidance explains that, while this re-examination of Part 11 is under way, we will narrowly interpret the scope of Part 11. It also explains that we intend to exercise enforcement discretion with respect to certain Part 11 requirements. We will not normally take regulatory action to enforce compliance with the validation, audit trail, record retention, and record copying requirements of Part 11 as explained in this guidance. However, records must still be maintained or submitted in accordance with the underlying predicate rules.

In addition, we intend to exercise enforcement discretion and will not normally take regulatory action to enforce Part 11 with regard to systems that were operational before August 20, 1997, the effective date of Part 11 (commonly known as existing or legacy systems) while we are reexamining Part 11.

 FDA's guidance documents, including this guidance, do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.

II. BACKGROUND

In March of 1997, FDA issued final Part 11 regulations that provided criteria for acceptance by FDA, under certain circumstances, of electronic records, electronic signatures, and handwritten signatures executed to electronic records as equivalent to paper records and handwritten signatures executed on paper. These regulations, which apply to all FDA program areas, were intended to permit the widest possible use of electronic technology, compatible with FDA's responsibility to protect the public health.

 After Part 11 became effective in August 1997, significant discussions ensued between industry, contractors, and the Agency concerning the interpretation and implementation of the rule. FDA has (1) spoken about Part 11 at many conferences and met numerous times with an industry coalition and other interested parties in an effort to hear more about potential Part 11 issues; (2) published a compliance policy guide, CPG 7153.17: Enforcement Policy: 21 CFR Part 11; Electronic Records; Electronic Signatures; and (3) published numerous draft guidance documents including the following:

• Guidance for industry, 21 CFR Part 11; Electronic Records; Electronic Signatures Validation

71 Validation72 • Guidance

• Guidance for industry, 21 CFR Part 11; Electronic Records; Electronic Signatures, Glossary of Terms

 Guidance for industry, 21 CFR Part 11; Electronic Records; Electronic Signatures, Time Stamps

 • Guidance for industry, 21 CFR Part 11; Electronic Records; Electronic Signatures, Maintenance of Electronic Records

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• Guidance for industry, 21 CFR Part 11; Electronic Records; Electronic Signatures, Electronic Copies of Electronic Records

Some statements by Agency staff may have been misunderstood as statements of official Agency policy. Concerns have been raised that some interpretations of the Part 11 requirements would (1) unnecessarily restrict the use of electronic technology in a manner that is inconsistent with FDA's stated intent in issuing the rule, (2) significantly increase the costs of compliance to an extent that was not contemplated at the time the rule was drafted, and (3) discourage innovation and technological advances without providing a significant public health benefit. These concerns have been raised particularly in the areas of Part 11 requirements for validation, audit trails, record retention, record copying, and legacy systems.

In the Federal Register of February 4, 2003, we announced the withdrawal of the draft guidance for industry, 21 CFR Part 11; Electronic Records; Electronic Signatures, Electronic Copies of Electronic Records because we wanted to avoid loss of time spent by industry in an effort to review and comment on the draft guidance when that draft guidance may no longer be representative of FDA's approach under the new CGMP initiative. The other Part 11 draft guidances were left in place because industry had already had the opportunity to review and comment on them. However, in preparing this guidance, FDA has determined that it might cause confusion to leave standing the other Part 11 draft guidance documents on validation, glossary of terms, time stamps, maintenance of electronic records, and CPG 7153.17. Accordingly, FDA is withdrawing those draft guidances and CPG 7153.17 as well as the guidance on electronic copies of electronic records. FDA received valuable public comments on these draft guidances and plans to use that information to inform the Agency's future decision-making with respect to Part 11.

 We have now determined that we will re-examine Part 11, and we may revise provisions of that regulation. To avoid unnecessary expenditures of resources to comply with Part 11 requirements that may be revised through a rulemaking, we are issuing this guidance to describe how we intend to exercise enforcement discretion with regard to certain Part 11 requirements during the re-examination of Part 11.

III. DISCUSSION

A.

As described in more detail below, the approach outlined in this guidence is based on

Overall Approach to Part 11 Requirements

 As described in more detail below, the approach outlined in this guidance is based on three main elements:

• Part 11 will be interpreted narrowly; we are now clarifying that fewer records will be considered subject to Part 11.

• For those records that we are now clarifying are subject to Part 11, we intend to exercise enforcement discretion with regard to Part 11 requirements for validation, audit trails,

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record retention, and record copying, in the manner described in this guidance, and in applying Part 11 to systems that were operational before the effective date of Part 11.

• FDA will enforce predicate rule requirements for records that are subject to Part 11.

It is important to note that FDA's exercise of enforcement discretion as described in this guidance, is limited to the specified Part 11 requirements. We intend to enforce all other provisions of Part 11 including, but not limited to, certain controls for closed systems in § 11.10 (e.g., limiting system access to authorized individuals; use of operational system checks; use of authority checks; use of device checks; determination that persons who develop, maintain, or use electronic systems have the education, training, and experience to perform their assigned tasks; establishment of and adherence to written policies that hold individuals accountable for actions initiated under their electronic signatures; and appropriate controls over systems documentation), the corresponding controls for open systems (§ 11.30), and requirements related to electronic signatures (e.g., §§ 11.50, 11.70, 11.100, 11.200, and 11.300). We expect continued compliance with these provisions, and we will continue to enforce them. Furthermore, persons must comply with applicable predicate rules, and records that are required to be maintained or submitted must remain secure and reliable in accordance with the predicate rules.

B. Details of Approach – Scope of Part 11

1. Narrow Interpretation of Scope

We understand that there have been different views expressed about the scope of Part 11. Some have understood the scope of Part 11 to be very broad. We believe that some of those broad interpretations could lead to unnecessary controls and costs and could discourage innovation and technological advances without providing added benefit to the public health. As a result, we want to clarify that the Agency intends to interpret the scope of Part 11 narrowly.

Under the narrow interpretation of the scope of Part 11, with respect to records required to be maintained or submitted, when persons choose to use records in electronic format in place of paper format, Part 11 would apply. On the other hand, when persons use computers to generate paper printouts of electronic records, those paper records meet all the requirements of the applicable predicate rules, and persons rely on the paper records to perform their regulated activities, the *merely incidental* use of computers in those instances would not trigger Part 11. In such instances, FDA would generally not consider persons to be "using electronic records in lieu of paper records" under §§ 11.2(a) and 11.2(b).

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158	<i>2</i> .	Definition of Part 11 Records
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160		row interpretation, FDA considers Part 11 to be applicable to the following records
161	or signatures i	n electronic format (Part 11 records or signatures):
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163	•	Records that are required to be maintained by predicate rules and that are
164		maintained in electronic format in place of paper format. On the other hand,
165		records (and any associated signatures) that are not required to be retained by
166		predicate rules, but that are nonetheless maintained in electronic format, are not
167		Part 11 records.
168	•	Records that are required to be maintained by predicate rules, are maintained in
169	•	electronic format in addition to paper format, and are relied on to perform
170		regulated activities.
171		In some cases, actual business practices may dictate whether you are using
172		electronic records instead of paper records under § 11.2(a). For example, if a
173		record is required to be maintained by a predicate rule and you use a computer to
174		generate a paper printout of the electronic records, but you nonetheless rely on the
175		electronic record to perform regulated activities, the Agency may consider you to
176		be using the electronic record instead of the paper record. That is, the Agency
177		may take your business practices into account in determining whether Part 11
178		applies.
179		Accordingly, we recommend that, for each record required to be maintained by
180		predicate rules, you determine in advance whether you plan to rely on the
181		electronic record or paper record to perform regulated activities. We recommend
182		that your decision be documented (e.g., in a Standard Operating Procedure
183		(SOP)).
184	•	Records submitted to FDA, under the predicate rules (even if such records are not
185		specifically identified in Agency regulations), in electronic format (assuming the
186		records have been identified in the docket as the types of submissions the Agency
187		accepts in electronic format). However, a record that is not itself submitted, but is
188		used in generating a submission, is not a Part 11 record unless it is otherwise
189		required to be maintained by a predicate rule and it is maintained in electronic
190		format.
191		Electronic signatures that are intended to be the equivalent of handwritten
192	•	signatures, initials, and other general signings required by predicate rules.
193		signatures, mittais, and other general signings required by production rates.
193	C.	Approach to Specific Part 11 Requirements
195	.	white control is the state of t
196		1. Validation
197		
198	The Agency in	ntends to exercise enforcement discretion regarding the specific Part 11
199	• •	for validation of computerized systems (§ 11.10(a) and corresponding requirements

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in § 11.30). Persons must still comply with all applicable predicate rule requirements for validation (e.g., 21 CFR 820.70(i)).

Even if there is no predicate rule requirement to validate a system in a particular instance, it may nonetheless be important to validate the system to ensure the accuracy and reliability of the Part 11 records contained in the system. We suggest that your decision to validate such systems, and the extent of validation, be based on predicate rule requirements to ensure the accuracy and reliability of the records contained in the system. We recommend that you base your approach on a justified and documented risk assessment and a determination of the potential of the system to affect product quality and safety and record integrity. For instance, a word processor used only to generate SOPs would most likely not need to be validated.

For further guidance on validation of computerized systems, see FDA's guidance for industry and FDA Staff General Principles of Software Validation and also industry guidance such as the GAMP 4 Guide (See References).

2. Audit Trail

The Agency intends to exercise enforcement discretion regarding the specific Part 11 requirements related to computer-generated, time-stamped audit trails (§ 11.10 (e), (k)(2) and any corresponding requirement in §11.30). Persons must still comply with all applicable predicate rule requirements related to documentation of, for example, date (e.g., § 58.130(e)), time, or sequencing of events.

Even if there are no predicate rule requirements to document, for example, date, time, or sequence of events in a particular instance, it may nonetheless be important to have audit trails or other physical, logical, or procedural security measures to ensure the trustworthiness and reliability of the records. We recommend that your decision on whether to apply audit trails, or other appropriate measures, be based on the need to comply with predicate rule requirements, a justified and documented risk assessment, and a determination of the potential impact on product quality and safety and record integrity. We suggest that you apply appropriate controls based on such an assessment. Audit trails are particularly important where the users are expected to create, modify, or delete regulated records during normal operation. ⁵

3. Legacy Systems

The Agency intends to exercise enforcement discretion with regard to legacy systems that otherwise met predicate rule requirements prior to August 20, 1997, the effective date of Part 11. This means that the Agency will not normally take regulatory action to enforce compliance with any part 11 requirements. However, all systems must comply with all applicable predicate rule requirements and should be fit for their intended use.

⁵ Various guidance documents on information security are available (see References).

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242 4. Copies of Records 243 The Agency intends to exercise enforcement discretion with regard to the specific Part 11 244 requirements for generating copies of records (§ 11.10 (b) and any corresponding requirement in 245 §11.30). You should provide an investigator with reasonable and useful access to records during 246 an inspection. All records held by you are subject to inspection in accordance with predicate 247 rules (e.g., §§ 211.180(c),(d) and 108.35(c)(3)(ii)). 248 249 250 We recommend that you supply copies of electronic records by 251 252 Producing copies of records held in common portable formats where records are 253 kept in these formats 254 Using established automated conversion or export methods, where available, to 255 make copies in a more common format (including PDF) 256 In each case, we recommend that you ensure that the copying process used produces copies that 257 preserve the content and meaning of the record. If you have the ability to search, sort, or trend 258 Part 11 records, copies provided to the Agency should provide the same capability if it is technically feasible. You should allow inspection, review, and copying of records in a human 259 260 readable form, on your site, using your hardware and software, following your established 261 procedures and techniques for accessing those records. 262 5. 263 Record Retention 264 The Agency intends to exercise enforcement discretion with regard to the Part 11 requirements 265 for the protection of records to enable their accurate and ready retrieval throughout the records 266 267 retention period (§ 11.10 (c) and any corresponding requirement in §11.30). Persons must still 268 comply with all applicable predicate rule requirements for record retention and availability (e.g., 269 §§ 211.180(c),(d), 108.25(g), and 108.35(h)). 270 271 We suggest that your decision on how to maintain records be based on predicate rule 272 requirements and that you base your decision on a justified and documented risk assessment and 273 a determination of the value of the records over time. 274 275 FDA normally does not intend to object if you decide to archive required records in electronic 276 format to nonelectronic media such as microfilm, microfiche, and paper, or to a standard 277 electronic file format, such as PDF. Persons must still comply with all predicate rule 278 requirements, and the records themselves and any copies of the required records should preserve 279 their content and meaning. In addition, paper and electronic record and signature components

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can co-exist (i.e., a hybrid situation) as long as predicate rule requirements are met and the content and meaning of those records are preserved.

⁶ Examples of hybrid situations include combinations of paper records and electronic records, paper records and electronic signatures, or handwritten signatures executed to electronic records.

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282		REFERENCES
283		
284	Fo	od and Drug Administration References
285 286	1.	Glossary of Computerized System and Software Development Terminology (Division of
287		Field Investigations, Office of Regional Operations, Office of Regulatory Affairs, FDA
288 289		1995) (http://www.fda.gov/ora/inspect_ref/igs/gloss.html)
290	2.	General Principles of Software Validation; Final Guidance for Industry and FDA Staff
291 292		(FDA, Center for Devices and Radiological Health, Center for Biologics Evaluation and Research, 2002) (http://www.fda.gov/cdrh/comp/guidance/938.html)
293		
294	3.	Guidance for Industry, FDA Reviewers, and Compliance on Off-The-Shelf Software Use
295 296		in Medical Devices (FDA, Center for Devices and Radiological Health, 1999) (http://www.fda.gov/cdrh/ode/guidance/585.html)
297		
298 299	4.	Pharmaceutical CGMPs for the 21 st Century: A Risk-Based Approach; A Science and Risk-Based Approach to Product Quality Regulation Incorporating an Integrated Quality
300		Systems Approach (FDA 2002)(http://www.fda.gov/oc/guidance/gmp.html)
301		
302 303	Ot	her U.S. Federal References
304		
305	5.	NIST Special Publication SP800-30: Risk Management Guide for Information
306 307		Technology Systems (National Institute of Standards and Technology, U.S. Department of Commerce, 2002) (http://csrc.nist.gov/publications/nistpubs/800-30/sp800-30.pdf)
308		Commerce, 2002) (http://esic.msgov/pueneusions/ms-pues/
309	In	dustry References
310		
311	6.	
312		Automated, GAMP 4 (ISPE/GAMP Forum, 2001) (http://www.ispe.org/gamp/)
313		
314	7.	ISO/IEC 17799:2000 (BS 7799:2000) Information technology – Code of practice for
315		information security management (ISO/IEC, 2000)